Revised Introduction
March 2012

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:
Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

Please complete all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). For nonproject actions.

A. BACKGROUND

1. Name of proposed project, if applicable:
   Wiley Slough Pump Station

2. Name of applicant:
   Washington Department of Fish and Wildlife

3. Address and phone number of applicant and contact person:
   600 Capitol Way N, Olympia, WA 98501: Chris Gourley (360) 902-8392

4. Date checklist prepared:
   01/25/2013

5. Agency requesting checklist:

6. Proposed timing or schedule (including phasing, if applicable):

Construction scheduled to begin when permits allow. Since the project takes place within the slough that is behind tide gates, it is expected that there will not be a fish window for the work on the slough side. Tide cycles will be used to determine the best in-water work window. Work on the Skagit River (Freshwater Slough) side will only be conducted during low tides so that impact is minimal.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

None at this time.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None are known at this time.

10. List any government approvals or permits that will be needed for your proposal, if known.

A Skagit County Shoreline Substantial Development Permit (JARPA), a Skagit County Shoreline Conditional Use Permit, a Skagit County building permit, a Skagit County Critical Areas Review, a Skagit County Critical Areas Variance, a Skagit County Minor Utility Development Permit, a Skagit County Grading Permit, a US Army Corps of Engineers Nationwide Permit, and a WDFW HPA Permit will be needed.

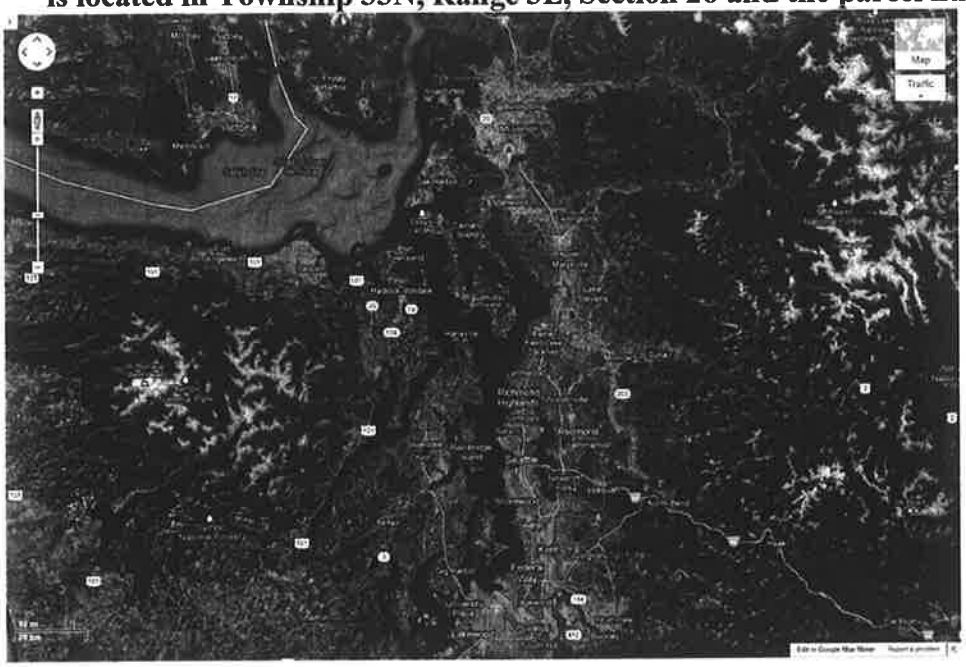
11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

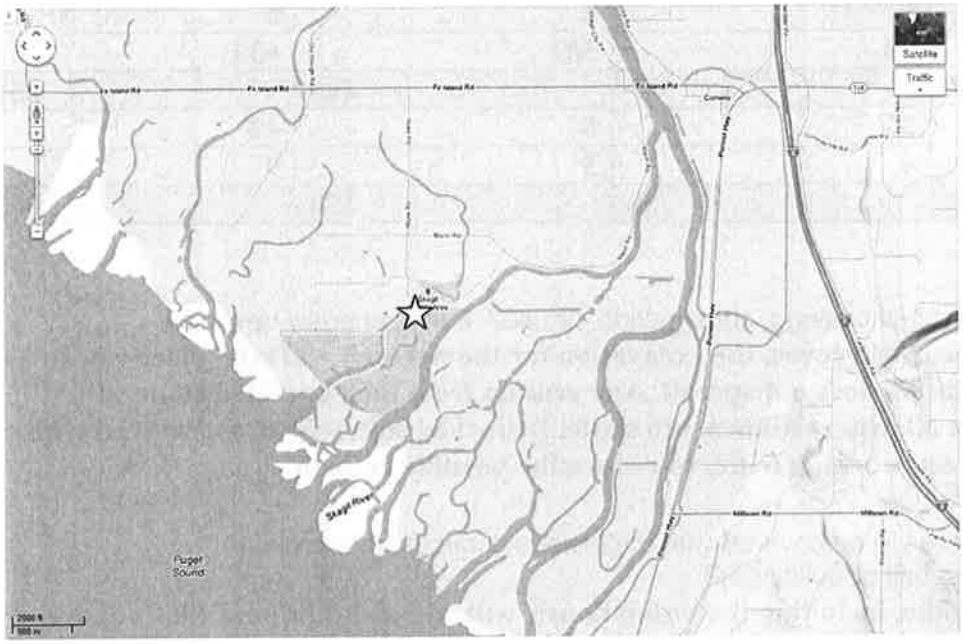
This project includes the construction of a pump house on Wiley Slough, housing dual pumps to maintain certain water levels in the slough to maintain groundwater at a level conducive to agriculture. A wet well will be excavated for the pumps in the bank of Wiley Slough. The pump house will be built on a pile-supported platform over this wet well. A walkway from the ground to the pump house will be built. The pumps will be set into a wet well composed of a concrete slab and ecology block walls. A trash rack will also be installed to keep debris from entering pumps. Pipes from the pumps will be installed through the dike to discharge into Skagit River's Freshwater Slough estuary. Tide gates will be placed on the outflow end of the pumps' pipes. A gravel pad will be constructed next to the pump wet well to allow maintenance of the pump area and wet well.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, and county if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Wiley Slough is located in the Skagit Wildlife Area in Skagit County on Fir Island. The

headquarters office is located at 21961 Wylie Road, Mount Vernon. Take I-5 to Exit 221. Go west from the freeway to Fir Island Road, following the signs for Conway/La Conner. In 1.8 miles, turn left onto Wiley Road and follow for 1 mile to a T intersection and a WDFW sign. Turn right into the parking lot. The site location is just downstream from this parking area. It is located in Township 33N, Range 3E, Section 26 and the parcel number is 16120.





B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site
(circle one): **Flat**, rolling, hilly, steep slopes, mountainous,
other _____

b. What is the steepest slope on the site (approximate percent slope)?

Before and after proposed action, the steepest slope is 50%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The soils in this area are predominantly Tacoma silt loam, drained. Nearby areas are composed of other silt loams. The Tacoma silt loam is typically found on delta plains and is from parent materials of alluvium and volcanic ash with thin lenses of unspecified organic material. This very poorly drained soil is found on 0-2% slopes.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

A gravel pull-out and a gravel work pad will be constructed adjacent to the gravel road and the pump wet well. Concrete will also be used to create the wet well base and ecology blocks will be used for the sides of the wet well. Rip rap will be used at the outlet of the pipes to dissipate energy. All sources of fill will be locally sourced.

	Below OHW (CY)	Outside OHW (CY)	Total (CY)
Soil Excavation	50	577	627
Rip Rap Excavation	0	5	5
Total Removal	50	582	632
Soil Backfill	9	248	257
Rip Rap Backfill	37	5	42
Concrete Fill	4	5	9
Total Fill	50	258	308

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Yes, erosion could occur. However, the excavation for the wet well will take place within a cofferdam so that siltation does not spread. Any erosion from the excavated slope will terminate in this area allowing sediments to settle. Disturbed soils will all be covered with straw or plastic between working hours to reduce the possible erosion.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The extension of the dike, including the pump house, will add an additional 1900 square feet of surface area. This area is heavily impacted from the building of the dike, and though vegetation exists, some of it is invasive and will be removed.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Temporary erosion and sediment control measures will be used during construction as described in the site plans. Staging and refueling of machines will be conducted out of the OHW with non-toxic lubricants. Additional siltation prevention BMPs include filter fabric

fences and hay bales. At project conclusion, these materials will be removed by hand and taken to an approved disposal site out of the flood zone.

All exposed soils will be sloped to promote runoff and covered with straw mulch and grass seed. Any disturbed plants above OHW will be replanted with native species within the riparian area. All work will be done in accordance with the terms and conditions of required permits. Please see site drawings for additional details.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Vehicle exhaust and dust from construction is expected. No long-term change in emissions is expected from the completed project.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Standard emission control converters and mufflers would be in use by construction vehicles.

3. **Water**

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Wiley Slough is the water body that will be pumped from. The water that is pumped from the slough side of the dike will be pumped to the Skagit River (Freshwater Slough) side of the dike which is an estuarine area. Southwest of the project area, the slough has a tide gate which does not function ideally. This allows water levels to get too high within the slough. This project will ensure proper groundwater levels conducive to agriculture.. The area surrounding the proposed action area is a highly braided delta that has marine influence. Using National Wetland Inventory as a guideline, it is possible that the project will occur in a wetland and wetland buffers. A wetland reconnaissance will be completed in the spring of 2013 to verify wetland boundaries.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

The pump house will pump from the Wiley Slough side of the dike to the Skagit River (Freshwater Slough) side of the dike. The pipes will run through the dike and work will take place in both watered areas. Work within the southern watered area will be timed to happen during low tides so the least amount of impact occurs. The Wiley Slough area is primarily a stagnant water body and the impact will be minimal to the overall water body. The wetland extent will be verified in the spring to determine if there will be any

impact.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

The outfall pipe on the south side of the dike will remove fill from the dike. Rip rap fill will be placed as an energy dissipater below the pipe for water velocity. The rip rap will measure 14' by 25.5' with 12' of rip rap placed in front of the pipe tide gates. The rip rap will be 3' deep and will occupy 37 CY of fill in the estuary area below OHW and 5 CY above OHW. Within the slough, an area will be excavated to create the wet well where water will be drawn from the slough. This wet well ensures that pumps operate in enough water depth to prevent burn out due to low water.

	Below OHW (CY)	Outside OHW (CY)	Total (CY)
Soil Excavation	50	577	627
Rip Rap Excavation	0	5	5
Total Removal	50	582	632
Soil Backfill	9	248	257
Rip Rap Backfill	37	5	42
Concrete Fill	4	5	9
Total Fill	50	258	308

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

The construction work will require surface water withdrawal. When excavating to install the wet well, a cofferdam will be installed around the excavation area. This area will be used to contain any possible sediment that will be stirred up from construction activities. Any water that seeps into the excavation will need to be pumped from the isolated area. It will be pumped into the slough approximately 300 feet upstream to provide proper settling before it reaches the tidegates.

The completed project will provide up to 16,000 gpm of pumping from the slough into the Freshwater Slough estuary.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Yes. The proposal is within zone A7 on the FIRM Map Panel 5301510425C.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No. Any wastes will be contained within the upland areas and removed by the end of construction.

b. Ground Water:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

The digging of the wet well may reqire removal of seepage groundwater by pumping. If this is the case, it will be pumped to approximately 300' upstream into Wiley Slough. This will allow for adequate settling before the water reaches the tidegate.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Not Applicable.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water from the dike will not be not changed or affected in any way. The new pump house will have a metal roof, pitched to allow runoff into the slough from both sides.

2) Could waste materials enter ground or surface waters? If so, generally describe.

It is possible, but highly unlikely. Any waste materials, such as oil, that may come from the pumps within the pump house will be contained within the pump house. Routine maintenance will reduce the odds of any waste materials. No construction waste materials will be allowed to enter ground or surface waters.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

Temporary erosion and sediment control measures will be used during construction as described in the site plans. Staging and refueling of machines will be conducted out of the OHWM with non-toxic lubricants. During project demolition and construction, a cofferdam will be installed around the work area. Additional siltation prevention BMPs include filter fabric fences and hay bales. At project conclusion, these materials will be removed by hand and taken to an approved disposal site out of the flood zone.

All exposed soils will be sloped to promote runoff and covered with straw mulch and grass seed. Native plantings will be installed where appropriate. All work will be done in accordance with the terms and conditions of required permits. Please see site drawings for additional details.

4. **Plants**

a. Check or circle types of vegetation found on the site:

__x__ deciduous tree: **alder**, maple, aspen, other:
__x__ evergreen tree: fir, **cedar**, pine, **spruce**, other
__x__ shrubs
__x__ grass
_____ pasture
_____ crop or grain
__x__ wet soil plants: **cattail**, **buttercup**, **rush**, skunk cabbage, other
_____ water plants: water lily, eelgrass, milfoil, other

_____ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Six 24"- diameter trees are anticipated to be removed for the pump house (as seen in the plans), as well as shrubs including salmonberry. Herbaceous vegetation will also be removed. Some of this is invasive Himalayan blackberry and reed canary grass. All disturbed soils will be covered in seed mix at the end of construction.

c. List threatened or endangered species known to be on or near the site.

The Natural Heritage Program (NHP) databases as well as the federal agency listings (USFWS) were examined for threatened or endangered plants on January 17, 2013. Threatened plants listed in Skagit County include the following: *Impatiens noli-tangere* (western jewel-weed), *Lobelia dortmanna* (water lobelia), *Loiseleuria procumbens* (Alpine azalea), *Meconella oregano* (white meconella), and *Ranunculus californicus* (Califronia buttercup). The only endangered plant listed is *Castilleja levisecta* (golden paintbrush). Of all the listed threatened species, none prefer a lowland estuarine environment. It is unlikely that they would be present at the project site. Golden paintbrushes are found in open grasslands and the proposed work area would not be ideal habitat.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

There will not be any enhancement of vegetation on the site. Seed mix will be placed where soils have been disturbed.

5. **Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: **hawk**, **heron**, **eagle**, **songbirds**, other: **various waterfowl and shorebirds**
mammals: deer, bear, elk, **beaver**, other:
fish: bass, salmon, trout, herring, shellfish, other

b. List any threatened or endangered species known to be on or near the site.

Northern spotted owl (*Strix occidentalis caurina*), marbled murrelet (*Brachyramphus marmoratus*), brown pelican (*pelecanus occidentalis)*, Oregon spotted frog (*Rana pretiosa*), Bull Trout (*Salvelinus confluentus*), grizzly bear (*Ursus arctos horribilis*), Canada lynx (*Lynx canadensis)*, and North American wolverine (*Gulo gulo luscus)* are all listed as threatened species by US Fish and Wildlife in Skagit County.

c. Is the site part of a migration route? If so, explain.

Many migratory bird species use this area as part of a migration route along the Pacific Flyway. Bull trout may also utilize this area for migration.

d. Proposed measures to preserve or enhance wildlife, if any:

To preserve fish and wildlife resources, WDFW will time this project to have minimal impact upon wildlife per permit requirements.

6. **Energy and natural resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electric power lines will power the new pumps in the pump house. A power pole currently exists nearby and two new power poles will be placed with power lines terminating at the pump house on the slough. See drawings for additional details.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Pumps will only be run when necessary to keep the Wiley Slough water surface at predetermined levels.

7. **Environmental health**

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

None.

1) Describe special emergency services that might be required.

None.

2) Proposed measures to reduce or control environmental health hazards, if any:

Avoid use of toxic chemicals and materials.

b. **Noise**

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Increased levels of noise during construction activities are expected from this project. Hours of increased noise levels will be 7am to 6pm. There will be impact pile driving for the four 16" galvanized steel pipe piles that support the pump house. These noise impacts are expected to be very short in duration and will only be in the slough area, not in the estuary. The pumps may be in operation for multiple hours per day. Most noise will be contained within the structure, but an ambient increase in noise is possible.

3) Proposed measures to reduce or control noise impacts, if any:

No special noise reduction efforts are planned other than the containment of the pumps within the pump house. Impact hammers will be used for pile driving to ensure proper stability of the finished pump house.

8. **Land and shoreline use**

a. What is the current use of the site and adjacent properties?

The site is within the Skagit Wildlife Area. The area is used for walk-in waterfowl and pheasant hunting, fishing, bird dog training, bird watching, walking, and jogging. There is a dike system of trails that allow access to the estuary for these activities. There is also a boat launch within the wildlife area.

Adjacent properties that are not part of the wildlife area are used for agriculture.

b. Has the site been used for agriculture? If so, describe.

The site was purchased using federal Pittman-Robertson funds for pheasant hunting and growing waterfowl forage grains in 1948. Management has since shifted to also restoring estuary habitat for Chinook salmon. 100 acres are planted annually with cereal grains (corn, pasture grasses, and/or barley) by local farmers under sharecrop leases or by staff. The immediate area of the project has not been used for this purpose.

c. Describe any structures on the site.

Within close proximity of the work to be accomplished, there is a covered area/building in the parking lot off Game Farm Road, a mobile trailer that serves as the headquarters for the Wildlife Area, a covered shed, and a building where additional WDFW staff work.

d. Will any structures be demolished? If so, what?

No structures will be demolished.

e. What is the current zoning classification of the site?

Public Open Space of Regional/Statewide Importance
Agricultural-Natural Resource Lands

f. What is the current comprehensive plan designation of the site?

Open Space of Regional/Statewide Importance

g. If applicable, what is the current shoreline master program designation of the site?

Natural Shoreline

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

Skagit County has requested a Critical Areas Review to be performed. The area surrounding the work area has regular concentrations of waterfowl, according to the WDFW PHS system. There are also nearby wetlands and estuarine zones listed on PHS. Some of the work may take place within a wetland. Wetland reconnaissance will be conducted in the spring to verify wetland boundaries and buffers.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None.

L . Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None.

9. **Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. **Aesthetics**

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The completed pump house will be approximately 16 feet taller than the current existing grade. The pump house itself will be approximately 12 feet tall and made primarily of concrete, metal, and wood.

b. What views in the immediate vicinity would be altered or obstructed?

There will be a slight obstruction of view due to the pump house structure. However, currently the area has large trees that block the view to the north side of the slough. Estuary views will not be blocked.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Color choice of the pump house was considered to reduce aesthetic impacts for Wildlife Area users. Forest green color was chosen.

11. **Light and glare**

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Some glare may occur due to the metal roof or siding when the sun is shining on the building. The steel grate may also produce some glare, but it will be minimal and non-obtrusive.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

Glare impacts will be reduced with paint or other building finishes. Matte finish paints will be used to reduce glare where possible.

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?

The area is used for walking, jogging, hunting, bird dog training, dog walking, and bird watching. There is also a boat launch that is used adjacent to the project.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No. However, during construction, a portion of the dike may be restricted for visitor safety.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

The dikes will remain open to visitors without blockage at project completion.

13. **Historic and cultural preservation**

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

The Department of Archaeology and Historic Preservation show there are no known sites near the project site (WISAARD access 01/17/13)

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Not Applicable.

c. Proposed measures to reduce or control impacts, if any:

Keep project within the proposed existing footprint.

14. **Transportation**

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Wylie Road and Game Farm Road both provide access to the dike where the work will be conducted. The dikes that are accessible to the public on foot only, will be kept open at every opportunity, but may be closed off periodically for visitor safety.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

The site is not served by public transit. The nearest stop is approximately 6.1 miles away at the South Mount Vernon Park and Ride on Old Hwy 99 and E Hickox Road in Mount Vernon, WA.

c. How many parking spaces would the completed project have? How many would the project eliminate?

There will be no additional parking spots for visitors. However, the project will add a 20'x20' gravel pull out and a gravel work pad for maintenance.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Only maintenance trips will be made. This will occur as required to maintain the facility.

g. Proposed measures to reduce or control transportation impacts, if any:

None.

15. **Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. **Utilities**

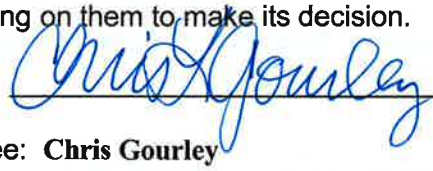
a. Circle utilities currently available at the site: **No utilities exist at the proposed site.** electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

There is a power pole located on the north side of the slough that provides power to the headquarters buildings. In order to power the proposed pumps, two additional power poles will need to be installed within the Wildlife Area. The poles will be placed so that the new power line will not intersect neighboring properties. It is possible that stringing the power line may require removal of small trees. The locations of the proposed new poles are shown in the drawings.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Name of signee: **Chris Gourley**
Position and Agency/Organization: **Biologist, Washington Department of Fish and Wildlife**

Date Submitted: **January 25, 2013**

Appendix A Project Drawings